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TEXT: (U)

occupied by Shop 22, an assembly shop for an unidentified missile component which employed approximately 250 personnel. Source did not know who headed this shop nor how many shifts were worked there. He was unable to provide any information on the missile component and did not know the type of missile with which it was associated. A maintenance and repair department (ekspluatatsionno-remontnyy otdel - ERO) was located on the sixth floor of the building. Source was unable to provide any details on this department; he knew only that ERO had a team which performed repairs in the field. (ORIGINATOR'S COMMENT: Source indicated that only the section of the L-shaped building which extended to the dotted line annotated by him had six stories; the remainder of the building had only four stories.)

Point 2: Main Assembly Shop (Shop 19). Four-story section of the L-shaped brick building containing the main assembly shop for air-to-air missiles (AAM). Source estimated that 600 to 700 personnel were employed in this facility which usually worked two shifts with the second shift's size approximately 80 percent of the first shift. Sometimes a third shift was necessary, usually near the end of the month, in order to meet the monthly production quotas. Until his transfer to the plant's power department in 1972 or 1973, the chief of Shop 19 was (FNU) VERNER; his successor was (FNU) KUCHERENKO. Three types of AAM were assembled in Shop 19. The largest of these was 6 to 7 meters in length and 35 to 45 centimeters in diameter; the smallest were 1.5 meters in length and 20 centimeters in diameter. Source was unable to provide additional details on these missiles; he recalled only that, depending on type, these missiles were charged with compressed air up to a pressure of 400 atmospheres. The missile assembly sections of Shop 19 were located on the second and third floors of the building; a missile testing section consisting of 30 to 40 personnel was located on the first floor. The fourth floor was occupied by Shop 9, a missile assembly shop whose facilities included the fourth floor of the two remaining sections of the L-shaped building (Points 3 and 4). Source had no access to Shop 9 and was unable to furnish information on the type of missile assembled there or on the strength of the workforce. (ORIGINATOR'S COMMENT: Source did not know what was located in the small annex at the rear of the center section of the L-shaped building.)

Point 3: Welding Shop (Shop 6). Located on the first three floors of a four-story section of the L-shaped building; the fourth floor was occupied by Shop 9, a missile assembly shop. The welding shop employed approximately 300 personnel and was responsible for welding missile housings. Until his transfer within the plant in 1970, Shop 6 was headed by (FNU) SUKHONOSOV. Source could not recall the name of the new shop chief and was unable to provide information on the number of shifts worked in this shop.

Point 4: Administrative Offices and Shop. Four-story section of the L-shaped building; housed a section of Shop 6 on the first floor and offices of the plant director, chief engineer, chief of production, and First Department on the second and third floors (see IIR 1 517 0356 81 for names of key personalities previously furnished by Source.) The fourth floor was occupied by Shop 9, a missile assembly shop.

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Point 16: Plant Print Shop. Four-story brick building containing the plant print shop which published the plant newspaper and also printed metal equipment tags. The print shop had a workforce of approximately 60 female employees. Source did not know whether documentation for the AAM was also printed here; however, he noted there was a guard on duty at this facility.

Point 17: Low-Pressure Compressor Building. Single-story building containing eight low-pressure compressors. The low-pressure compressor section was part of Shop 34 which employed approximately 20 personnel in three shifts and was headed by Pavel Grigorevich KONOV following the retirement of (FNU) VOLKOV. The plant's high-pressure compressor section was also a part of Shop 34 and was manned by personnel assigned to Shop 34. Also located in the same building were a small welding shop with parts storage and a sanding and grinding shop where missile checkout vans were sandblasted prior to painting. The welding parts storage was central storage facility for all gas welding shops at the plant.

Point 18: Multi-Shop Building. Four-story building containing Shop 7, 14, and 20. Shop 7 was the central galvanizing shop for the plant and other plants in the same production association (see IIR 1 517 0356 81) and employed 200 personnel. Shop 7 occupied the first and second floors of the building and worked in two shifts. (ORIGINATOR'S COMMENT: Source stated categorically that this building was not lower on the rear side as shown in Figure 1, although it had this configuration "15 years ago." Source stated that the lower section had been "built up" to the level of the remainder of the building in 1970.) The third floor was occupied by Shop 14, a machine shop which also milled and turned titanium used in the AAM produced at the plant. Shop 14 had approximately 400 personnel who worked in two shifts. The fourth floor was occupied by Shop 20, the missile rail assembly shop. This shop employed 350 personnel in two shifts and was headed by (FNU) KIRILOV until his transfer within the plant in 1970. Source could not recall the name of his successor. In earlier times, this shop had produced bomb racks for aircraft. Source was unable to provide any details on the production of this latter shop. Two small rooms used for AAM seeker head checkout were also located in this building. The seeker heads were not produced at the plant and were supplied by an unidentified plant in Leningrad (5955N/03015E, NIS). Source was unable to provide any additional details on this activity.

Point 19: Plastics Production Shop (Shop 4). Located in one section of a four-story shop building. Shop 4 employed approximately 300 personnel in two shifts and was headed by (FNU) ANTONINKO. This shop produced unidentified plastic parts for the AAM and also manufactured plastic toys for the civilian market.

Point 20: High-Pressure Compressor Facility and Precision Measurement Equipment Laboratory (PMEL). Located in a three-story section of the Plastics Production Shop Building (Point 19). The high-pressure compressor section of Shop 34 was located on the first floor of the building and was equipped with one compressor having a capacity of 400 atmospheres, two compressors with a capacity of 350 atmospheres each, and two compressors with a capacity of 150 atmospheres each. The PMEL occupied the second and

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Point 29: Maintenance Shop (Shop 30). Maintained the plant's machinery and performed repairs on metal structural members of buildings; employed approximately 300 personnel in one shift. Located in a two-story building.

Point 30: Missile Testing Facility (Shop 17). "Closed" shop located in a three-story building. Source was unable to provide any information on the workforce, number of shifts, and management personnel at this facility. He knew only that environmental testing was conducted in a "cool room" at Shop 17. The "cool room" was a cylindrical chamber 12 meters long and 4 meters in diameter in which missiles and unidentified parts were exposed to a temperature of minus 70 degrees Celsius.

Point 31: Pumping Station. Pump located atop a well 220 meters deep for emergency use. The plant ordinarily drew its water from the city water system; however, the pump was occasionally used when the pressure in the city system dropped too low.

Point 32: Administrative Building. Former boiler plant; housed offices of the compressor shops (Shop 34), the plant's plumbing shop, and electrical shop.

Point 33: Unidentified Building.

Point 34: Electrical Shop (Shop 32). One of two single-story buildings occupied by Shop 32 which performed electrical maintenance at the plant. Shop 32 employed 150 personnel who worked one shift.

Point 35: Electrical Shop. Part of Shop 32.

Point 36: Unidentified Facility. Four-story building; formerly Shop 10, the heat treating shop. Source believed that a machine shop and assembly facility may have been located here. Although he was uncertain, he believed that the former head of Shop 6, (FNU) SUKHONOSOV, became chief of the shop in this facility.

Point 37: Unidentified Building.

Point 38: Plant Trade School (Tekhnikum). School providing a three-year training program for technicians. The plant's shipping and receiving department was also located in this building. Except for missiles which were shipped by truck directly from Shop 19, all other items to be shipped were crated and dispatched at this facility.

Point 39: Vehicle Maintenance Shop (Shop 15).

Point 40: Unidentified Facility.

Point 41: Boiler Plant. Operated by Shop 34; equipped with three DKVR 13/20 boilers.

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COMMENTS: (U)

(U) This is the only report to be published in response to SC-SA2-1382. SDR expired in Oct 1983 but is referenced at the request of originator. The report represents the extent of Source's knowledgeability in response to this and other referenced requirements.

(C) Source is a straightforward individual who was business-like in demeanor and provided information willingly. He had a remarkable memory for details and provided extensive information on the missile plant; however, while he had ready access to many facilities at the plant because of the nature of his work, he had little insight into the production processes and was unable to provide information on production numbers, nomenclatures of equipment and machinery, missile designations, or technical characteristics and parameters. Information provided previously by Source was reported in IIR 1 517 0356 81.

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